

Title (en)
DISC BRAKE FOR A COMMERCIAL VEHICLE WITH CENTERING DEVICE

Title (de)
SCHEIBENBREMSE FÜR EIN NUTZFAHRZEUG MIT ZENTRIEREINRICHTUNG

Title (fr)
FREIN À DISQUE POUR VÉHICULE UTILITAIRE AVEC DISPOSITIF DE CENTRAGE

Publication
EP 4348073 A1 20240410 (EN)

Application
EP 22729710 A 20220520

Priority
• EP 21176309 A 20210527
• EP 21194326 A 20210901
• EP 2022063781 W 20220520

Abstract (en)
[origin: WO2022248368A1] The invention relates to a disc brake (1) for a commercial vehicle with a pneumatic brake cylinder (4), a brake disc, a brake caliper (3), a brake application device (7) and with brake pads (8), wherein the brake caliper (3) engages over the brake disc and the brake application device (7), which can be actuated by the brake cylinder (4), is arranged in the brake caliper (3), by means of which the brake linings (8) can be pressed against the brake disc on both sides during braking, wherein an extendable and retractable piston rod (6) of the brake cylinder (4) is in engagement with the brake application device (7) and the brake caliper (3) is detachably fastened to the brake cylinder (4) by means of a fastening device (2), wherein the fastening device (2) comprises at least one screw (11a, 11b) with a screw head (12a, 12b), a screw shank (13a, 13b) and an external thread formed on the screw shank (13a, 13b) and at least one bore (14a, 14b) with an internal thread formed in or on the brake cylinder (4) with an internal thread, into which the screw shank (13a, 13b) is screwed with the external thread, wherein the screw head (12a, 12b) is locked on a counter surface (15a, 15b) of the brake caliper (3). According to the invention, a centering device is designed and provided to center the pneumatic brake cylinder (4) and the brake caliper (3) against each other independently of the screw connection of the at least one screw (13a, 13b) with the at least one bore (14a, 14b).

IPC 8 full level
F16D 65/00 (2006.01); **B60T 7/00** (2006.01); **B60T 13/00** (2006.01); **B60T 17/08** (2006.01); **F16D 55/226** (2006.01); **F16D 65/18** (2006.01)

CPC (source: EP)
B60T 7/00 (2013.01); **B60T 17/088** (2013.01); **F16D 55/226** (2013.01); **F16D 65/0056** (2013.01); **F16D 65/0081** (2013.01); **F16D 65/183** (2013.01); **F16D 2055/0008** (2013.01); **F16D 2055/0037** (2013.01); **F16D 2121/08** (2013.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022248368 A1 20221201; EP 4348073 A1 20240410

DOCDB simple family (application)
EP 2022063781 W 20220520; EP 22729710 A 20220520